

All4, Inc.

2393 Kimberton Road
Kimberton, PA 19442

U.S. Steel Corp – Clairton Works
Clairton, PA
Client Project # 00701-0002.00

Analytical Report
(1022-153R)

EPA Method TO-15
TO-15 Target Compound List



Enthalpy Analytical, LLC

Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / www.enthalpy.com

800-1 Capitola Drive Durham, NC 27713-4385

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

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AMCross

Report Issued: 1/23/23



Results

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC01_230103_S
Sample Info. 1022-153; 500mL Load; Can #000069
Sampling Date 2023-01-03 11:01
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300104.D
Dilution 1.000
Pressurization Factor 1.744
Acquisition Date 2023-01-09 12:39
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC01_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	2.28	0.0674	0.0610	3.92	0.116	0.105	
Freon 12 (CCl2F2)	0.425	0.0683	0.0610	2.10	0.338	0.302	
Freon 114 (C2Cl2F4)	ND	0.699	0.0610	ND	4.88	0.426	
Chloromethane	0.678	0.0690	0.0610	1.40	0.142	0.126	
Chloroethene (Vinyl chloride)	ND	0.0697	0.0610	ND	0.178	0.156	
1,3-Butadiene	0.110	0.0679	0.0610	0.243	0.150	0.135	
Bromomethane	ND	0.0684	0.0610	ND	0.266	0.237	
Chloroethane	ND	0.0709	0.0610	ND	0.187	0.161	
Bromoethene (Vinyl bromide)	ND	0.0682	0.0610	ND	0.298	0.267	
Freon 11 (CCl3F)	0.232	0.0736	0.0610	1.30	0.413	0.343	
Ethanol	1.67	0.0691	0.0698	3.15	0.130	0.131	m
Acrolein	0.194	0.0687	0.0610	0.445	0.157	0.140	
Freon 113 (C2Cl3F3)	0.0682	0.0708	0.0610	0.523	0.542	0.468	J, m
1,1-Dichloroethene	ND	0.0702	0.0610	ND	0.278	0.242	
Acetone	1.66	0.0699	0.0610	3.95	0.166	0.145	
Carbon disulfide	ND	0.0696	0.0610	ND	0.216	0.190	
Isopropyl alcohol	0.215	0.0696	0.0610	0.528	0.171	0.150	m
Allyl chloride (3-chloropropene)	ND	0.0753	0.0610	ND	0.236	0.191	
Acetonitrile	0.139	0.0696	0.0610	0.233	0.117	0.102	
Methylene chloride	0.114	0.0714	0.0610	0.394	0.248	0.212	m
trans-1,2-Dichloroethene	ND	0.0712	0.0610	ND	0.282	0.242	
Methyl tert-butyl ether	ND	0.0717	0.0610	ND	0.258	0.220	
Acrylonitrile	ND	0.0710	0.0610	ND	0.154	0.132	
Hexane	0.278	0.0709	0.0610	0.978	0.250	0.215	
1,1-Dichloroethane	ND	0.0693	0.0610	ND	0.280	0.247	
Vinyl acetate	ND	0.0714	0.0610	ND	0.251	0.215	
cis-1,2-Dichloroethene	ND	0.0705	0.0610	ND	0.279	0.242	
Methyl ethyl ketone (2-Butanone)	0.210	0.0721	0.0610	0.618	0.213	0.180	
Ethyl acetate	0.0668	0.0696	0.0610	0.240	0.251	0.220	J, m
Chloroform	ND	0.0700	0.0610	ND	0.341	0.298	
Tetrahydrofuran	ND	0.0706	0.0610	ND	0.208	0.180	
1,1,1-Trichloroethane	ND	0.0705	0.0610	ND	0.384	0.333	
Cyclohexane	0.202	0.0715	0.0610	0.695	0.246	0.210	

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs
 All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC01_230103_S
 Sample Info. 1022-153; 500mL Load; Can #000069
 Sampling Date 2023-01-03 11:01
 Received Date 2023-01-06 00:00
 Sample Type Sample
 Batch Xavier_X010923A.v1
 Data File X2300104.D
 Dilution 1.000
 Pressurization Factor 1.744
 Acquisition Date 2023-01-09 12:39
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Analyst TDD
 Instrument Xavier
 Enthalpy ID 1022-153.VOC01_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0761	0.0702	0.0610	0.478	0.442	0.384	m
Benzene	1.49	0.0702	0.0610	4.77	0.224	0.195	
2,2,4-trimethylpentane	ND	0.0721	0.0610	ND	0.337	0.285	
1,2-Dichloroethane	ND	0.0718	0.0610	ND	0.290	0.247	
Heptane	0.244	0.0707	0.0610	1.00	0.289	0.250	
Trichloroethene	ND	0.0705	0.0610	ND	0.379	0.328	
1,2-Dichloropropane	ND	0.0702	0.0610	ND	0.324	0.282	
Methyl methacrylate	ND	0.0730	0.0610	ND	0.299	0.250	
1,4-Dioxane	ND	0.0700	0.0610	ND	0.252	0.220	
Bromodichloromethane	ND	0.0705	0.0610	ND	0.472	0.409	
cis-1,3-Dichloropropene	ND	0.0693	0.0610	ND	0.314	0.277	
Methyl isobutyl ketone	0.296	0.0725	0.0610	1.21	0.297	0.250	
Toluene	1.69	0.0710	0.0610	6.37	0.267	0.230	
trans-1,3-Dichloropropene	ND	0.0720	0.0610	ND	0.327	0.277	
1,1,2-Trichloroethane	ND	0.0709	0.0610	ND	0.387	0.333	
Tetrachloroethene	ND	0.0714	0.0610	ND	0.484	0.414	
2-Hexanone (Methyl butyl ketone)	ND	0.0714	0.0610	ND	0.292	0.250	
Dibromochloromethane	ND	0.0703	0.0610	ND	0.599	0.520	
1,2-Dibromoethane	ND	0.0714	0.0610	ND	0.548	0.469	
Chlorobenzene	ND	0.0719	0.0610	ND	0.331	0.281	
Ethylbenzene	0.0759	0.0693	0.0610	0.329	0.301	0.265	
1,1,1,2-Tetrachloroethane	ND	0.0703	0.0610	ND	0.482	0.419	
m-/p-Xylenes	0.208	0.0707	0.0610	0.901	0.307	0.265	
o-Xylene	0.122	0.0699	0.0610	0.529	0.303	0.265	m
Styrene	0.0961	0.0684	0.0610	0.409	0.291	0.260	m
Bromoform	ND	0.0700	0.0610	ND	0.723	0.631	
1,1,2,2-Tetrachloroethane	ND	0.0705	0.0610	ND	0.484	0.419	
4-Ethyltoluene	0.345	0.0709	0.0610	1.70	0.349	0.300	m
2-Chlorotoluene	ND	0.0704	0.0610	ND	0.364	0.316	
1,3,5-Trimethylbenzene	0.190	0.0707	0.0610	0.934	0.348	0.300	
1,2,4-Trimethylbenzene	0.302	0.0698	0.0610	1.48	0.343	0.300	
1,3-Dichlorobenzene	ND	0.0709	0.0610	ND	0.426	0.367	
1,4-Dichlorobenzene	ND	0.0701	0.0610	ND	0.421	0.367	

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All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC01_230103_S
Sample Info. 1022-153; 500mL Load; Can #000069
Sampling Date 2023-01-03 11:01
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300104.D
Dilution 1.000
Pressurization Factor 1.744
Acquisition Date 2023-01-09 12:39
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC01_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0702	0.0610	ND	0.363	0.316	
1,2-Dichlorobenzene	ND	0.0707	0.0610	ND	0.425	0.367	
1,2,4-Trichlorobenzene	ND	0.0695	0.0610	ND	0.515	0.453	
Hexachlorobutadiene	ND	0.0689	0.0610	ND	0.735	0.651	
Naphthalene	ND	0.0702	0.0610	ND	0.368	0.320	
1-Bromopropane	ND	0.0692	0.0610	ND	0.348	0.307	
1-Octene	ND	0.0689	0.0610	ND	0.316	0.280	
n-Octane	0.0689	0.0719	0.0610	0.322	0.335	0.285	J
Isopropylbenzene	0.0801	0.0709	0.0610	0.394	0.348	0.300	
n-Propylbenzene	0.284	0.0716	0.0610	1.39	0.352	0.300	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	831,684	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,161,810	12.46	5.16	pass
Chlorobenzene-d5 (IS)	2,886,824	16.60	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC02_230103_S
Sample Info. 1022-153; 500mL Load; Can #1780
Sampling Date 2023-01-03 10:55
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300105.D
Dilution 1.000
Pressurization Factor 1.766
Acquisition Date 2023-01-09 13:33
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC02_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	2.37	0.0682	0.0618	4.08	0.117	0.106	
Freon 12 (CCl2F2)	0.410	0.0692	0.0618	2.03	0.342	0.305	m
Freon 114 (C2Cl2F4)	ND	0.708	0.0618	ND	4.94	0.432	
Chloromethane	0.600	0.0699	0.0618	1.24	0.144	0.128	
Chloroethene (Vinyl chloride)	ND	0.0706	0.0618	ND	0.180	0.158	
1,3-Butadiene	0.0776	0.0687	0.0618	0.172	0.152	0.137	
Bromomethane	ND	0.0693	0.0618	ND	0.269	0.240	
Chloroethane	ND	0.0718	0.0618	ND	0.189	0.163	
Bromoethene (Vinyl bromide)	ND	0.0691	0.0618	ND	0.302	0.270	
Freon 11 (CCl3F)	0.208	0.0745	0.0618	1.17	0.418	0.347	
Ethanol	1.91	0.0700	0.0706	3.60	0.132	0.133	
Acrolein	0.220	0.0696	0.0618	0.504	0.159	0.142	
Freon 113 (C2Cl3F3)	0.0720	0.0717	0.0618	0.551	0.549	0.473	m
1,1-Dichloroethene	ND	0.0711	0.0618	ND	0.282	0.245	
Acetone	1.95	0.0708	0.0618	4.63	0.168	0.147	
Carbon disulfide	0.0624	0.0704	0.0618	0.194	0.219	0.192	J
Isopropyl alcohol	0.298	0.0704	0.0618	0.731	0.173	0.152	
Allyl chloride (3-chloropropene)	ND	0.0763	0.0618	ND	0.239	0.193	
Acetonitrile	0.193	0.0704	0.0618	0.324	0.118	0.104	
Methylene chloride	0.120	0.0723	0.0618	0.415	0.251	0.215	
trans-1,2-Dichloroethene	ND	0.0721	0.0618	ND	0.285	0.245	
Methyl tert-butyl ether	ND	0.0726	0.0618	ND	0.262	0.223	
Acrylonitrile	ND	0.0719	0.0618	ND	0.156	0.134	
Hexane	0.244	0.0718	0.0618	0.858	0.253	0.218	
1,1-Dichloroethane	ND	0.0701	0.0618	ND	0.284	0.250	
Vinyl acetate	ND	0.0723	0.0618	ND	0.254	0.217	
cis-1,2-Dichloroethene	ND	0.0713	0.0618	ND	0.283	0.245	
Methyl ethyl ketone (2-Butanone)	0.290	0.0730	0.0618	0.853	0.215	0.182	
Ethyl acetate	ND	0.0705	0.0618	ND	0.254	0.223	
Chloroform	ND	0.0708	0.0618	ND	0.346	0.302	
Tetrahydrofuran	ND	0.0715	0.0618	ND	0.211	0.182	
1,1,1-Trichloroethane	ND	0.0713	0.0618	ND	0.389	0.337	
Cyclohexane	0.235	0.0724	0.0618	0.808	0.249	0.213	

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC02_230103_S
Sample Info. 1022-153; 500mL Load; Can #1780
Sampling Date 2023-01-03 10:55
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300105.D
Dilution 1.000
Pressurization Factor 1.766
Acquisition Date 2023-01-09 13:33
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC02_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0725	0.0711	0.0618	0.456	0.447	0.389	
Benzene	0.769	0.0711	0.0618	2.46	0.227	0.197	
2,2,4-trimethylpentane	ND	0.0730	0.0618	ND	0.341	0.289	
1,2-Dichloroethane	ND	0.0727	0.0618	ND	0.294	0.250	
Heptane	0.147	0.0716	0.0618	0.603	0.293	0.253	
Trichloroethene	ND	0.0714	0.0618	ND	0.384	0.332	
1,2-Dichloropropane	ND	0.0711	0.0618	ND	0.329	0.285	
Methyl methacrylate	ND	0.0740	0.0618	ND	0.303	0.253	
1,4-Dioxane	ND	0.0708	0.0618	ND	0.255	0.223	
Bromodichloromethane	ND	0.0713	0.0618	ND	0.478	0.414	
cis-1,3-Dichloropropene	ND	0.0701	0.0618	ND	0.318	0.280	
Methyl isobutyl ketone	ND	0.0734	0.0618	ND	0.300	0.253	
Toluene	1.13	0.0719	0.0618	4.27	0.271	0.233	
trans-1,3-Dichloropropene	ND	0.0729	0.0618	ND	0.331	0.280	
1,1,2-Trichloroethane	ND	0.0718	0.0618	ND	0.392	0.337	
Tetrachloroethene	ND	0.0723	0.0618	ND	0.490	0.419	
2-Hexanone (Methyl butyl ketone)	ND	0.0723	0.0618	ND	0.296	0.253	
Dibromochloromethane	ND	0.0712	0.0618	ND	0.606	0.526	
1,2-Dibromoethane	ND	0.0723	0.0618	ND	0.555	0.475	
Chlorobenzene	ND	0.0728	0.0618	ND	0.335	0.284	
Ethylbenzene	ND	0.0701	0.0618	ND	0.304	0.268	
1,1,1,2-Tetrachloroethane	ND	0.0712	0.0618	ND	0.488	0.424	
m-/p-Xylenes	0.178	0.0716	0.0618	0.773	0.311	0.268	m
o-Xylene	0.110	0.0708	0.0618	0.477	0.307	0.268	m
Styrene	0.107	0.0692	0.0618	0.454	0.295	0.263	
Bromoform	ND	0.0708	0.0618	ND	0.732	0.638	
1,1,2,2-Tetrachloroethane	ND	0.0714	0.0618	ND	0.490	0.424	
4-Ethyltoluene	0.263	0.0718	0.0618	1.29	0.353	0.304	m
2-Chlorotoluene	ND	0.0713	0.0618	ND	0.369	0.320	
1,3,5-Trimethylbenzene	0.175	0.0716	0.0618	0.862	0.352	0.304	
1,2,4-Trimethylbenzene	0.269	0.0707	0.0618	1.32	0.347	0.304	m
1,3-Dichlorobenzene	ND	0.0718	0.0618	ND	0.431	0.371	
1,4-Dichlorobenzene	ND	0.0710	0.0618	ND	0.427	0.371	

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Sample Info. 1022-153; 500mL Load; Can #1780
Sampling Date 2023-01-03 10:55
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300105.D
Dilution 1.000
Pressurization Factor 1.766
Acquisition Date 2023-01-09 13:33
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC02_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0711	0.0618	ND	0.368	0.320	
1,2-Dichlorobenzene	ND	0.0716	0.0618	ND	0.430	0.371	
1,2,4-Trichlorobenzene	ND	0.0704	0.0618	ND	0.522	0.458	
Hexachlorobutadiene	ND	0.0698	0.0618	ND	0.744	0.659	
Naphthalene	2.36	0.0711	0.0618	12.3	0.373	0.324	
1-Bromopropane	ND	0.0701	0.0618	ND	0.352	0.311	
1-Octene	ND	0.0697	0.0618	ND	0.320	0.283	
n-Octane	0.0694	0.0728	0.0618	0.324	0.340	0.289	J
Isopropylbenzene	0.0629	0.0718	0.0618	0.309	0.353	0.304	J
n-Propylbenzene	0.220	0.0725	0.0618	1.08	0.356	0.304	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	857,208	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,204,114	12.46	5.16	pass
Chlorobenzene-d5 (IS)	2,862,568	16.59	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03_230103_S
Sample Info. 1022-153; 500mL Load; Can #1871
Sampling Date 2023-01-03 10:51
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923B.v1
Data File X2300106.D
Dilution 1.000
Pressurization Factor 1.759
Acquisition Date 2023-01-09 14:28
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC03_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	2.44	0.0680	0.0616	4.20	0.117	0.106	
Freon 12 (CCl2F2)	0.433	0.0689	0.0616	2.14	0.340	0.304	
Freon 114 (C2Cl2F4)	ND	0.705	0.0616	ND	4.93	0.430	
Chloromethane	0.630	0.0696	0.0616	1.30	0.144	0.127	
Chloroethene (Vinyl chloride)	ND	0.0703	0.0616	ND	0.180	0.157	
1,3-Butadiene	ND	0.0685	0.0616	ND	0.151	0.136	
Bromomethane	ND	0.0690	0.0616	ND	0.268	0.239	
Chloroethane	ND	0.0715	0.0616	ND	0.188	0.162	
Bromoethene (Vinyl bromide)	ND	0.0688	0.0616	ND	0.301	0.269	
Freon 11 (CCl3F)	0.216	0.0742	0.0616	1.21	0.417	0.346	
Ethanol	1.21	0.0697	0.0704	2.28	0.131	0.132	
Acrolein	0.155	0.0693	0.0616	0.355	0.159	0.141	m
Freon 113 (C2Cl3F3)	ND	0.0714	0.0616	ND	0.547	0.472	
1,1-Dichloroethene	ND	0.0708	0.0616	ND	0.280	0.244	
Acetone	1.36	0.0705	0.0616	3.23	0.167	0.146	
Carbon disulfide	ND	0.0701	0.0616	ND	0.218	0.192	
Isopropyl alcohol	0.160	0.0701	0.0616	0.394	0.172	0.151	
Allyl chloride (3-chloropropene)	ND	0.0760	0.0616	ND	0.238	0.193	
Acetonitrile	0.181	0.0701	0.0616	0.304	0.118	0.103	
Methylene chloride	0.125	0.0720	0.0616	0.435	0.250	0.214	
trans-1,2-Dichloroethene	ND	0.0718	0.0616	ND	0.284	0.244	
Methyl tert-butyl ether	ND	0.0723	0.0616	ND	0.261	0.222	
Acrylonitrile	ND	0.0716	0.0616	ND	0.155	0.134	
Hexane	0.168	0.0715	0.0616	0.593	0.252	0.217	
1,1-Dichloroethane	ND	0.0699	0.0616	ND	0.283	0.249	
Vinyl acetate	ND	0.0720	0.0616	ND	0.253	0.217	
cis-1,2-Dichloroethene	ND	0.0711	0.0616	ND	0.282	0.244	
Methyl ethyl ketone (2-Butanone)	0.180	0.0727	0.0616	0.532	0.214	0.181	
Ethyl acetate	ND	0.0702	0.0616	ND	0.253	0.222	
Chloroform	ND	0.0706	0.0616	ND	0.344	0.300	
Tetrahydrofuran	ND	0.0712	0.0616	ND	0.210	0.181	
1,1,1-Trichloroethane	ND	0.0711	0.0616	ND	0.387	0.336	
Cyclohexane	0.151	0.0721	0.0616	0.520	0.248	0.212	m

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03_230103_S
Sample Info. 1022-153; 500mL Load; Can #1871
Sampling Date 2023-01-03 10:51
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923B.v1
Data File X2300106.D
Dilution 1.000
Pressurization Factor 1.759
Acquisition Date 2023-01-09 14:28
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC03_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0730	0.0708	0.0616	0.459	0.445	0.387	
Benzene	1.99	0.0708	0.0616	6.37	0.226	0.197	
2,2,4-trimethylpentane	ND	0.0727	0.0616	ND	0.340	0.287	
1,2-Dichloroethane	ND	0.0724	0.0616	ND	0.293	0.249	
Heptane	0.106	0.0713	0.0616	0.434	0.292	0.252	m
Trichloroethene	ND	0.0711	0.0616	ND	0.382	0.331	
1,2-Dichloropropane	ND	0.0708	0.0616	ND	0.327	0.284	
Methyl methacrylate	ND	0.0737	0.0616	ND	0.301	0.252	
1,4-Dioxane	ND	0.0706	0.0616	ND	0.254	0.222	
Bromodichloromethane	ND	0.0711	0.0616	ND	0.476	0.412	
cis-1,3-Dichloropropene	ND	0.0699	0.0616	ND	0.317	0.279	
Methyl isobutyl ketone	ND	0.0731	0.0616	ND	0.299	0.252	
Toluene	1.12	0.0716	0.0616	4.22	0.270	0.232	
trans-1,3-Dichloropropene	ND	0.0726	0.0616	ND	0.329	0.279	
1,1,2-Trichloroethane	ND	0.0716	0.0616	ND	0.390	0.336	
Tetrachloroethene	0.102	0.0720	0.0616	0.688	0.488	0.417	
2-Hexanone (Methyl butyl ketone)	ND	0.0720	0.0616	ND	0.295	0.252	
Dibromochloromethane	ND	0.0709	0.0616	ND	0.604	0.524	
1,2-Dibromoethane	ND	0.0720	0.0616	ND	0.553	0.473	
Chlorobenzene	ND	0.0725	0.0616	ND	0.333	0.283	
Ethylbenzene	ND	0.0699	0.0616	ND	0.303	0.267	
1,1,1,2-Tetrachloroethane	ND	0.0709	0.0616	ND	0.487	0.422	
m-/p-Xylenes	0.172	0.0713	0.0616	0.745	0.310	0.267	m
o-Xylene	0.0907	0.0705	0.0616	0.393	0.306	0.267	
Styrene	0.0888	0.0690	0.0616	0.378	0.294	0.262	
Bromoform	ND	0.0706	0.0616	ND	0.729	0.636	
1,1,2,2-Tetrachloroethane	ND	0.0711	0.0616	ND	0.488	0.422	
4-Ethyltoluene	0.207	0.0716	0.0616	1.02	0.352	0.302	m
2-Chlorotoluene	ND	0.0710	0.0616	ND	0.367	0.319	
1,3,5-Trimethylbenzene	0.102	0.0713	0.0616	0.501	0.350	0.302	
1,2,4-Trimethylbenzene	0.183	0.0704	0.0616	0.898	0.346	0.302	
1,3-Dichlorobenzene	ND	0.0715	0.0616	ND	0.430	0.370	
1,4-Dichlorobenzene	ND	0.0707	0.0616	ND	0.425	0.370	

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03_230103_S
Sample Info. 1022-153; 500mL Load; Can #1871
Sampling Date 2023-01-03 10:51
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923B.v1
Data File X2300106.D
Dilution 1.000
Pressurization Factor 1.759
Acquisition Date 2023-01-09 14:28
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC03_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0708	0.0616	ND	0.366	0.319	
1,2-Dichlorobenzene	ND	0.0713	0.0616	ND	0.428	0.370	
1,2,4-Trichlorobenzene	ND	0.0701	0.0616	ND	0.520	0.457	
Hexachlorobutadiene	ND	0.0695	0.0616	ND	0.741	0.656	
Naphthalene	1.85	0.0708	0.0616	9.68	0.371	0.323	
1-Bromopropane	ND	0.0698	0.0616	ND	0.351	0.309	
1-Octene	ND	0.0694	0.0616	ND	0.318	0.282	
n-Octane	ND	0.0725	0.0616	ND	0.338	0.287	
Isopropylbenzene	ND	0.0715	0.0616	ND	0.351	0.302	
n-Propylbenzene	0.186	0.0722	0.0616	0.914	0.355	0.302	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	854,222	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,171,412	12.46	5.16	pass
Chlorobenzene-d5 (IS)	2,826,614	16.59	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03_230103_D
Sample Info. 1022-153; 500mL Load; Can #1701
Sampling Date 2023-01-03 10:51
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300108.D
Dilution 1.000
Pressurization Factor 1.751
Acquisition Date 2023-01-09 16:16
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC03_230103_D.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	2.29	0.0676	0.0613	3.94	0.116	0.105	
Freon 12 (CCl2F2)	0.395	0.0686	0.0613	1.95	0.339	0.303	
Freon 114 (C2Cl2F4)	ND	0.702	0.0613	ND	4.90	0.428	
Chloromethane	0.621	0.0693	0.0613	1.28	0.143	0.126	m
Chloroethene (Vinyl chloride)	ND	0.0700	0.0613	ND	0.179	0.157	
1,3-Butadiene	ND	0.0681	0.0613	ND	0.151	0.135	
Bromomethane	ND	0.0687	0.0613	ND	0.267	0.238	
Chloroethane	ND	0.0711	0.0613	ND	0.188	0.162	
Bromoethene (Vinyl bromide)	ND	0.0685	0.0613	ND	0.299	0.268	
Freon 11 (CCl3F)	0.203	0.0739	0.0613	1.14	0.415	0.344	
Ethanol	1.07	0.0694	0.0700	2.02	0.131	0.132	
Acrolein	0.138	0.0690	0.0613	0.315	0.158	0.140	
Freon 113 (C2Cl3F3)	0.0673	0.0711	0.0613	0.516	0.544	0.469	J, m
1,1-Dichloroethene	ND	0.0704	0.0613	ND	0.279	0.243	
Acetone	1.83	0.0702	0.0613	4.35	0.167	0.145	m
Carbon disulfide	0.0754	0.0698	0.0613	0.235	0.217	0.191	
Isopropyl alcohol	0.102	0.0698	0.0613	0.251	0.171	0.151	
Allyl chloride (3-chloropropene)	ND	0.0756	0.0613	ND	0.237	0.192	
Acetonitrile	0.191	0.0698	0.0613	0.321	0.117	0.103	m
Methylene chloride	0.105	0.0717	0.0613	0.363	0.249	0.213	m
trans-1,2-Dichloroethene	ND	0.0714	0.0613	ND	0.283	0.243	
Methyl tert-butyl ether	ND	0.0720	0.0613	ND	0.259	0.221	
Acrylonitrile	ND	0.0713	0.0613	ND	0.155	0.133	
Hexane	0.180	0.0711	0.0613	0.634	0.251	0.216	
1,1-Dichloroethane	ND	0.0695	0.0613	ND	0.281	0.248	
Vinyl acetate	ND	0.0716	0.0613	ND	0.252	0.216	
cis-1,2-Dichloroethene	ND	0.0707	0.0613	ND	0.280	0.243	
Methyl ethyl ketone (2-Butanone)	0.205	0.0724	0.0613	0.604	0.213	0.181	m
Ethyl acetate	ND	0.0699	0.0613	ND	0.252	0.221	
Chloroform	ND	0.0702	0.0613	ND	0.343	0.299	
Tetrahydrofuran	ND	0.0709	0.0613	ND	0.209	0.181	
1,1,1-Trichloroethane	ND	0.0707	0.0613	ND	0.386	0.334	
Cyclohexane	0.156	0.0718	0.0613	0.536	0.247	0.211	

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03_230103_D
Sample Info. 1022-153; 500mL Load; Can #1701
Sampling Date 2023-01-03 10:51
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300108.D
Dilution 1.000
Pressurization Factor 1.751
Acquisition Date 2023-01-09 16:16
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC03_230103_D.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0674	0.0705	0.0613	0.424	0.443	0.385	J
Benzene	2.11	0.0704	0.0613	6.73	0.225	0.196	
2,2,4-trimethylpentane	ND	0.0724	0.0613	ND	0.338	0.286	
1,2-Dichloroethane	ND	0.0721	0.0613	ND	0.291	0.248	
Heptane	0.103	0.0709	0.0613	0.421	0.291	0.251	
Trichloroethene	ND	0.0708	0.0613	ND	0.380	0.329	
1,2-Dichloropropane	ND	0.0705	0.0613	ND	0.326	0.283	
Methyl methacrylate	ND	0.0733	0.0613	ND	0.300	0.251	
1,4-Dioxane	ND	0.0702	0.0613	ND	0.253	0.221	
Bromodichloromethane	ND	0.0707	0.0613	ND	0.474	0.410	
cis-1,3-Dichloropropene	ND	0.0695	0.0613	ND	0.315	0.278	
Methyl isobutyl ketone	ND	0.0728	0.0613	ND	0.298	0.251	
Toluene	1.10	0.0713	0.0613	4.15	0.268	0.231	
trans-1,3-Dichloropropene	ND	0.0723	0.0613	ND	0.328	0.278	
1,1,2-Trichloroethane	ND	0.0712	0.0613	ND	0.388	0.334	
Tetrachloroethene	0.0862	0.0716	0.0613	0.585	0.486	0.415	
2-Hexanone (Methyl butyl ketone)	ND	0.0716	0.0613	ND	0.293	0.251	
Dibromochloromethane	ND	0.0706	0.0613	ND	0.601	0.522	
1,2-Dibromoethane	ND	0.0716	0.0613	ND	0.550	0.470	
Chlorobenzene	ND	0.0721	0.0613	ND	0.332	0.282	
Ethylbenzene	ND	0.0695	0.0613	ND	0.302	0.266	
1,1,1,2-Tetrachloroethane	ND	0.0706	0.0613	ND	0.484	0.420	
m-/p-Xylenes	0.163	0.0710	0.0613	0.706	0.308	0.266	
o-Xylene	0.0811	0.0702	0.0613	0.352	0.304	0.266	
Styrene	0.0786	0.0686	0.0613	0.334	0.292	0.261	
Bromoform	ND	0.0702	0.0613	ND	0.725	0.633	
1,1,2,2-Tetrachloroethane	ND	0.0708	0.0613	ND	0.486	0.420	
4-Ethyltoluene	0.203	0.0712	0.0613	0.999	0.350	0.301	m
2-Chlorotoluene	ND	0.0707	0.0613	ND	0.366	0.317	
1,3,5-Trimethylbenzene	0.0926	0.0710	0.0613	0.455	0.349	0.301	
1,2,4-Trimethylbenzene	0.171	0.0701	0.0613	0.840	0.344	0.301	
1,3-Dichlorobenzene	ND	0.0711	0.0613	ND	0.427	0.368	
1,4-Dichlorobenzene	ND	0.0704	0.0613	ND	0.423	0.368	

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC03_230103_D
Sample Info. 1022-153; 500mL Load; Can #1701
Sampling Date 2023-01-03 10:51
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300108.D
Dilution 1.000
Pressurization Factor 1.751
Acquisition Date 2023-01-09 16:16
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC03_230103_D.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0704	0.0613	ND	0.364	0.317	
1,2-Dichlorobenzene	ND	0.0709	0.0613	ND	0.426	0.368	
1,2,4-Trichlorobenzene	ND	0.0697	0.0613	ND	0.517	0.454	
Hexachlorobutadiene	ND	0.0692	0.0613	ND	0.737	0.653	
Naphthalene	1.81	0.0705	0.0613	9.48	0.369	0.321	
1-Bromopropane	ND	0.0695	0.0613	ND	0.349	0.308	
1-Octene	ND	0.0691	0.0613	ND	0.317	0.281	
n-Octane	ND	0.0721	0.0613	ND	0.337	0.286	
Isopropylbenzene	ND	0.0711	0.0613	ND	0.349	0.301	
n-Propylbenzene	0.166	0.0718	0.0613	0.815	0.353	0.301	m

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	855,255	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,175,218	12.46	5.16	pass
Chlorobenzene-d5 (IS)	2,878,929	16.60	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC04_230103_S
Sample Info. 1022-153; 500mL Load; Can #R5073
Sampling Date 2023-01-03 10:44
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300109.D
Dilution 1.000
Pressurization Factor 1.771
Acquisition Date 2023-01-09 17:11
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC04_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	2.12	0.0684	0.0620	3.64	0.118	0.107	
Freon 12 (CCl2F2)	0.412	0.0693	0.0620	2.04	0.343	0.306	
Freon 114 (C2Cl2F4)	ND	0.710	0.0620	ND	4.96	0.433	
Chloromethane	0.653	0.0701	0.0620	1.35	0.145	0.128	
Chloroethene (Vinyl chloride)	ND	0.0708	0.0620	ND	0.181	0.158	
1,3-Butadiene	0.0665	0.0689	0.0620	0.147	0.152	0.137	J
Bromomethane	ND	0.0695	0.0620	ND	0.270	0.241	
Chloroethane	ND	0.0720	0.0620	ND	0.190	0.163	
Bromoethene (Vinyl bromide)	ND	0.0693	0.0620	ND	0.303	0.271	
Freon 11 (CCl3F)	0.236	0.0747	0.0620	1.32	0.420	0.348	
Ethanol	1.56	0.0702	0.0708	2.94	0.132	0.133	
Acrolein	0.221	0.0698	0.0620	0.507	0.160	0.142	m
Freon 113 (C2Cl3F3)	ND	0.0719	0.0620	ND	0.551	0.475	
1,1-Dichloroethene	ND	0.0713	0.0620	ND	0.282	0.246	
Acetone	2.11	0.0710	0.0620	5.00	0.169	0.147	
Carbon disulfide	0.217	0.0706	0.0620	0.676	0.220	0.193	
Isopropyl alcohol	0.237	0.0706	0.0620	0.581	0.173	0.152	m
Allyl chloride (3-chloropropene)	ND	0.0765	0.0620	ND	0.239	0.194	
Acetonitrile	0.934	0.0706	0.0620	1.57	0.118	0.104	
Methylene chloride	0.101	0.0725	0.0620	0.350	0.252	0.215	m
trans-1,2-Dichloroethene	ND	0.0723	0.0620	ND	0.286	0.246	
Methyl tert-butyl ether	ND	0.0728	0.0620	ND	0.262	0.223	
Acrylonitrile	0.0981	0.0721	0.0620	0.213	0.156	0.134	
Hexane	0.188	0.0720	0.0620	0.663	0.254	0.218	m
1,1-Dichloroethane	ND	0.0703	0.0620	ND	0.285	0.251	
Vinyl acetate	ND	0.0725	0.0620	ND	0.255	0.218	
cis-1,2-Dichloroethene	ND	0.0715	0.0620	ND	0.283	0.246	
Methyl ethyl ketone (2-Butanone)	0.300	0.0732	0.0620	0.885	0.216	0.183	m
Ethyl acetate	ND	0.0707	0.0620	ND	0.255	0.223	
Chloroform	ND	0.0710	0.0620	ND	0.347	0.302	
Tetrahydrofuran	ND	0.0717	0.0620	ND	0.211	0.183	
1,1,1-Trichloroethane	ND	0.0715	0.0620	ND	0.390	0.338	
Cyclohexane	0.135	0.0726	0.0620	0.463	0.250	0.213	m

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC04_230103_S
Sample Info. 1022-153; 500mL Load; Can #R5073
Sampling Date 2023-01-03 10:44
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300109.D
Dilution 1.000
Pressurization Factor 1.771
Acquisition Date 2023-01-09 17:11
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC04_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0787	0.0713	0.0620	0.495	0.448	0.390	
Benzene	31.9	0.0713	0.0620	102	0.228	0.198	m
2,2,4-trimethylpentane	ND	0.0732	0.0620	ND	0.342	0.289	
1,2-Dichloroethane	0.480	0.0729	0.0620	1.94	0.295	0.251	
Heptane	0.0903	0.0718	0.0620	0.370	0.294	0.254	m
Trichloroethene	ND	0.0716	0.0620	ND	0.385	0.333	
1,2-Dichloropropane	ND	0.0713	0.0620	ND	0.329	0.286	
Methyl methacrylate	ND	0.0742	0.0620	ND	0.304	0.254	
1,4-Dioxane	ND	0.0710	0.0620	ND	0.256	0.223	
Bromodichloromethane	ND	0.0715	0.0620	ND	0.479	0.415	
cis-1,3-Dichloropropene	ND	0.0703	0.0620	ND	0.319	0.281	
Methyl isobutyl ketone	ND	0.0736	0.0620	ND	0.301	0.254	
Toluene	3.71	0.0721	0.0620	14.0	0.272	0.233	
trans-1,3-Dichloropropene	ND	0.0731	0.0620	ND	0.332	0.281	
1,1,2-Trichloroethane	ND	0.0720	0.0620	ND	0.393	0.338	
Tetrachloroethene	0.208	0.0725	0.0620	1.41	0.491	0.420	
2-Hexanone (Methyl butyl ketone)	ND	0.0725	0.0620	ND	0.297	0.254	
Dibromochloromethane	ND	0.0714	0.0620	ND	0.608	0.528	
1,2-Dibromoethane	ND	0.0725	0.0620	ND	0.556	0.476	
Chlorobenzene	ND	0.0730	0.0620	ND	0.336	0.285	
Ethylbenzene	ND	0.0703	0.0620	ND	0.305	0.269	
1,1,1,2-Tetrachloroethane	ND	0.0714	0.0620	ND	0.490	0.425	
m-/p-Xylenes	0.454	0.0718	0.0620	1.97	0.312	0.269	
o-Xylene	0.129	0.0710	0.0620	0.558	0.308	0.269	
Styrene	0.175	0.0694	0.0620	0.743	0.296	0.264	
Bromoform	ND	0.0710	0.0620	ND	0.734	0.640	
1,1,2,2-Tetrachloroethane	ND	0.0716	0.0620	ND	0.491	0.425	
4-Ethyltoluene	0.126	0.0720	0.0620	0.619	0.354	0.304	m
2-Chlorotoluene	ND	0.0715	0.0620	ND	0.370	0.321	
1,3,5-Trimethylbenzene	0.0630	0.0718	0.0620	0.309	0.353	0.304	J
1,2,4-Trimethylbenzene	0.135	0.0709	0.0620	0.664	0.348	0.304	
1,3-Dichlorobenzene	ND	0.0720	0.0620	ND	0.432	0.372	
1,4-Dichlorobenzene	ND	0.0712	0.0620	ND	0.428	0.372	

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC04_230103_S
Sample Info. 1022-153; 500mL Load; Can #R5073
Sampling Date 2023-01-03 10:44
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300109.D
Dilution 1.000
Pressurization Factor 1.771
Acquisition Date 2023-01-09 17:11
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC04_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzyl chloride	ND	0.0713	0.0620	ND	0.369	0.321	
1,2-Dichlorobenzene	ND	0.0718	0.0620	ND	0.431	0.372	
1,2,4-Trichlorobenzene	ND	0.0706	0.0620	ND	0.523	0.460	
Hexachlorobutadiene	ND	0.0700	0.0620	ND	0.746	0.661	
Naphthalene	1.06	0.0713	0.0620	5.53	0.374	0.325	m
1-Bromopropane	ND	0.0703	0.0620	ND	0.353	0.312	
1-Octene	ND	0.0699	0.0620	ND	0.321	0.284	
n-Octane	ND	0.0730	0.0620	ND	0.341	0.289	
Isopropylbenzene	ND	0.0720	0.0620	ND	0.354	0.304	
n-Propylbenzene	0.108	0.0727	0.0620	0.529	0.357	0.304	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	848,081	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,169,024	12.46	5.16	pass
Chlorobenzene-d5 (IS)	2,882,127	16.59	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC05_230103_S
Sample Info. 1022-153; 500mL Load; Can #1774
Sampling Date 2023-01-03 12:10
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300110.D
Dilution 1.000
Pressurization Factor 1.751
Acquisition Date 2023-01-09 18:05
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC05_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	3.26	0.0677	0.0613	5.61	0.116	0.105	m
Freon 12 (CCl2F2)	0.404	0.0686	0.0613	2.00	0.339	0.303	
Freon 114 (C2Cl2F4)	ND	0.702	0.0613	ND	4.90	0.428	
Chloromethane	0.642	0.0693	0.0613	1.32	0.143	0.126	
Chloroethene (Vinyl chloride)	ND	0.0700	0.0613	ND	0.179	0.157	
1,3-Butadiene	0.508	0.0681	0.0613	1.12	0.151	0.135	
Bromomethane	ND	0.0687	0.0613	ND	0.267	0.238	
Chloroethane	ND	0.0712	0.0613	ND	0.188	0.162	
Bromoethene (Vinyl bromide)	ND	0.0685	0.0613	ND	0.299	0.268	
Freon 11 (CCl3F)	0.204	0.0739	0.0613	1.14	0.415	0.344	m
Ethanol	1.55	0.0694	0.0700	2.92	0.131	0.132	
Acrolein	0.265	0.0690	0.0613	0.608	0.158	0.140	
Freon 113 (C2Cl3F3)	0.0670	0.0711	0.0613	0.513	0.544	0.469	J
1,1-Dichloroethene	ND	0.0705	0.0613	ND	0.279	0.243	
Acetone	2.03	0.0702	0.0613	4.82	0.167	0.145	
Carbon disulfide	1.89	0.0698	0.0613	5.89	0.217	0.191	
Isopropyl alcohol	0.285	0.0698	0.0613	0.700	0.172	0.151	
Allyl chloride (3-chloropropene)	ND	0.0756	0.0613	ND	0.237	0.192	
Acetonitrile	4.51	0.0698	0.0613	7.57	0.117	0.103	
Methylene chloride	0.114	0.0717	0.0613	0.395	0.249	0.213	
trans-1,2-Dichloroethene	ND	0.0714	0.0613	ND	0.283	0.243	
Methyl tert-butyl ether	ND	0.0720	0.0613	ND	0.259	0.221	
Acrylonitrile	0.0912	0.0713	0.0613	0.198	0.155	0.133	
Hexane	0.182	0.0712	0.0613	0.643	0.251	0.216	
1,1-Dichloroethane	ND	0.0695	0.0613	ND	0.281	0.248	
Vinyl acetate	ND	0.0716	0.0613	ND	0.252	0.216	
cis-1,2-Dichloroethene	ND	0.0707	0.0613	ND	0.280	0.243	
Methyl ethyl ketone (2-Butanone)	0.219	0.0724	0.0613	0.646	0.213	0.181	
Ethyl acetate	ND	0.0699	0.0613	ND	0.252	0.221	
Chloroform	ND	0.0702	0.0613	ND	0.343	0.299	
Tetrahydrofuran	ND	0.0709	0.0613	ND	0.209	0.181	
1,1,1-Trichloroethane	ND	0.0707	0.0613	ND	0.386	0.334	
Cyclohexane	0.126	0.0718	0.0613	0.432	0.247	0.211	

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC05_230103_S
Sample Info. 1022-153; 500mL Load; Can #1774
Sampling Date 2023-01-03 12:10
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300110.D
Dilution 1.000
Pressurization Factor 1.751
Acquisition Date 2023-01-09 18:05
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC05_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Carbon tetrachloride	0.0737	0.0705	0.0613	0.463	0.443	0.385	
2,2,4-trimethylpentane	ND	0.0724	0.0613	ND	0.338	0.286	
1,2-Dichloroethane	3.70	0.0721	0.0613	15.0	0.291	0.248	
Heptane	ND	0.0709	0.0613	ND	0.291	0.251	
Trichloroethene	ND	0.0708	0.0613	ND	0.380	0.329	
1,2-Dichloropropane	ND	0.0705	0.0613	ND	0.326	0.283	
Methyl methacrylate	ND	0.0733	0.0613	ND	0.300	0.251	
1,4-Dioxane	ND	0.0702	0.0613	ND	0.253	0.221	
Bromodichloromethane	ND	0.0707	0.0613	ND	0.474	0.410	
cis-1,3-Dichloropropene	ND	0.0695	0.0613	ND	0.315	0.278	
Methyl isobutyl ketone	ND	0.0728	0.0613	ND	0.298	0.251	
Toluene	16.6	0.0713	0.0613	62.4	0.269	0.231	
trans-1,3-Dichloropropene	ND	0.0723	0.0613	ND	0.328	0.278	
1,1,2-Trichloroethane	ND	0.0712	0.0613	ND	0.388	0.334	
Tetrachloroethene	0.105	0.0716	0.0613	0.713	0.486	0.415	m
2-Hexanone (Methyl butyl ketone)	ND	0.0716	0.0613	ND	0.293	0.251	
Dibromochloromethane	ND	0.0706	0.0613	ND	0.601	0.522	
1,2-Dibromoethane	ND	0.0716	0.0613	ND	0.550	0.471	
Chlorobenzene	ND	0.0721	0.0613	ND	0.332	0.282	
Ethylbenzene	0.116	0.0695	0.0613	0.503	0.302	0.266	
1,1,1,2-Tetrachloroethane	ND	0.0706	0.0613	ND	0.484	0.420	
m-/p-Xylenes	2.20	0.0710	0.0613	9.55	0.308	0.266	
o-Xylene	0.536	0.0702	0.0613	2.33	0.305	0.266	
Styrene	1.78	0.0686	0.0613	7.58	0.292	0.261	
Bromoform	ND	0.0702	0.0613	ND	0.726	0.633	
1,1,2,2-Tetrachloroethane	ND	0.0708	0.0613	ND	0.486	0.420	
4-Ethyltoluene	0.377	0.0712	0.0613	1.85	0.350	0.301	m
2-Chlorotoluene	ND	0.0707	0.0613	ND	0.366	0.317	
1,3,5-Trimethylbenzene	0.352	0.0710	0.0613	1.73	0.349	0.301	
1,2,4-Trimethylbenzene	0.524	0.0701	0.0613	2.58	0.344	0.301	
1,3-Dichlorobenzene	ND	0.0712	0.0613	ND	0.428	0.368	
1,4-Dichlorobenzene	ND	0.0704	0.0613	ND	0.423	0.368	
Benzyl chloride	ND	0.0705	0.0613	ND	0.365	0.317	

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC05_230103_S
Sample Info. 1022-153; 500mL Load; Can #1774
Sampling Date 2023-01-03 12:10
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300110.D
Dilution 1.000
Pressurization Factor 1.751
Acquisition Date 2023-01-09 18:05
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC05_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
1,2-Dichlorobenzene	ND	0.0709	0.0613	ND	0.426	0.368	
1,2,4-Trichlorobenzene	ND	0.0698	0.0613	ND	0.517	0.454	
Hexachlorobutadiene	ND	0.0692	0.0613	ND	0.737	0.653	
Naphthalene	39.0	0.0705	0.0613	204	0.369	0.321	
1-Bromopropane	ND	0.0695	0.0613	ND	0.349	0.308	
1-Octene	ND	0.0691	0.0613	ND	0.317	0.281	
n-Octane	ND	0.0721	0.0613	ND	0.337	0.286	
Isopropylbenzene	0.0787	0.0712	0.0613	0.387	0.350	0.301	
n-Propylbenzene	0.301	0.0719	0.0613	1.48	0.353	0.301	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	866,892	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,290,623	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,922,249	16.60	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name VOC05_230103_S
Sample Info. 1022-153; *10=50mL Load; Can #1774
Sampling Date 2023-01-03 12:10
Received Date 2023-01-06 00:00
Sample Type Sample
Batch Xavier_X010923A.v1
Data File X2300112.D
Dilution 10.000
Pressurization Factor 1.751
Acquisition Date 2023-01-09 19:38
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID 1022-153.VOC05_230103_S.Can

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzene	194	0.705	0.613	620	2.25	1.96	

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
1,4-Difluorobenzene (IS)	3,244,148	12.46	5.16	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical -- Canister Pressurization

Job No. 1022-153
Company All4, Inc.
Site U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Can Number	000069	1701	1774	1780	1871	R5073
Job	1022-153	1022-153	1022-153	1022-153	1022-153	1022-153
Sample ID	VOC01_230103_S	VOC03_230103_D	VOC05_230103_S	VOC02_230103_S	VOC03_230103_S	VOC04_230103_S
CleanDate	09/30/2022	11/03/2022	11/17/2022	09/30/2022	11/03/2022	09/30/2022
LeakCheckDate	10/04/2022	11/04/2022	11/21/2022	10/03/2022	11/04/2022	10/04/2022
LeakCheckAnalyst	aamears	aamears	aamears	aamears	aamears	aamears
BlankCheckRef	Y2203762	X2202047	X2202258	Y2203753	X2202046	Y2203760
Weather Station ID	88	88	88	88	88	88
Weather Station Exp.	02/02/2024	02/02/2024	02/02/2024	02/02/2024	02/02/2024	02/02/2024
Transducer ID	3	3	3	3	3	3
Transducer Exp.	02/22/2023	02/22/2023	02/22/2023	02/22/2023	02/22/2023	02/22/2023
Can Size (L)	6	6	6	6	6	6
Evac Temp (F)	67.4	67.4	67.4	67.4	67.4	67.4
Evac Pbar (mmHg)	763.0	763.0	763.0	763.0	763.0	763.0
Evac Gauge (mmHg)	-763.0	-763.0	-763.0	-763.0	-763.0	-763.0
Evac Analyst	aamears	aamears	aamears	aamears	aamears	aamears
Evac Time	01/09/23 08:36	01/09/23 09:54	01/09/23 09:55	01/09/23 08:39	01/09/23 09:52	01/09/23 09:54
Evac Vol (L)	0.000	0.000	0.000	0.000	0.000	0.000
Recd. Temp (F)	70.5	70.5	70.5	70.5	70.5	70.5
Recd. Pbar (mmHg)	757.9	757.9	757.9	757.9	757.9	757.9
Recd. Gauge (mmHg)	-12.0	-197.0	-96.0	-96.0	-53.0	-182.0
Recd Vol (L)	5.861	4.408	5.201	5.201	5.539	4.525
P1 Temp (F)	70.5	70.5	70.5	70.5	70.5	70.5
P1 Pbar (mmHg)	757.9	757.9	757.9	757.9	757.9	757.9
P1 Gauge (mmHg)	543.0	224.0	401.0	411.0	482.0	262.0
P1 Analyst	aamears	aamears	aamears	aamears	aamears	aamears
P1 Time	01/09/23 08:37	01/09/23 09:54	01/09/23 09:55	01/09/23 08:39	01/09/23 09:52	01/09/23 09:55
P1 Vol (L)	10.222	7.716	9.106	9.185	9.743	8.014
P1 DF Override	false	false	false	false	false	false
P1 Dilution Factor	1.744	1.751	1.751	1.766	1.759	1.771

Lab QC

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs
 All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 1022-153.VOC03_230103_S.LD
 Sample Info. 1022-153; 500mL Load; Can #1871
 Sampling Date 2023-01-03 10:51
 Received Date 2023-01-06 00:00
 Sample Type LabDup
 Batch Xavier_X010923B.v1
 Data File X2300107.D
 Dilution 1.000
 Pressurization Factor 1.759
 Acquisition Date 2023-01-09 15:22
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Enthalpy ID 1022-153.VOC03_230103_S.LD

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Dup Diff (%)	Flags
Propylene	2.42	0.0680	0.0616	4.16	0.117	0.106	1.1	pass
Freon 12 (CCl2F2)	0.414	0.0689	0.0616	2.05	0.340	0.304	4.5	pass
Freon 114 (C2Cl2F4)	ND	0.705	0.0616	ND	4.93	0.430		
Chloromethane	0.633	0.0696	0.0616	1.31	0.144	0.127	0.5	pass
Chloroethene (Vinyl chloride)	ND	0.0703	0.0616	ND	0.180	0.157		
1,3-Butadiene	ND	0.0685	0.0616	ND	0.151	0.136		
Bromomethane	ND	0.0690	0.0616	ND	0.268	0.239		
Chloroethane	ND	0.0715	0.0616	ND	0.188	0.162		
Bromoethene (Vinyl bromide)	ND	0.0688	0.0616	ND	0.301	0.269		
Freon 11 (CCl3F)	0.218	0.0742	0.0616	1.22	0.417	0.346	0.9	pass
Ethanol	1.18	0.0697	0.0704	2.21	0.131	0.132	3.0	pass
Acrolein	0.190	0.0693	0.0616	0.435	0.159	0.141	20.2	pass
Freon 113 (C2Cl3F3)	0.0666	0.0714	0.0616	0.510	0.547	0.472	10.1	pass, J
1,1-Dichloroethene	ND	0.0708	0.0616	ND	0.280	0.244		
Acetone	1.37	0.0705	0.0616	3.26	0.167	0.146	1.0	pass
Carbon disulfide	0.0670	0.0701	0.0616	0.208	0.218	0.192	8.8	pass, J
Isopropyl alcohol	0.166	0.0701	0.0616	0.408	0.172	0.151	3.6	pass
Allyl chloride (3-chloropropene)	ND	0.0760	0.0616	ND	0.238	0.193		
Acetonitrile	0.182	0.0701	0.0616	0.305	0.118	0.103	0.6	pass, m
Methylene chloride	0.110	0.0720	0.0616	0.383	0.250	0.214	12.9	pass, m
trans-1,2-Dichloroethene	ND	0.0718	0.0616	ND	0.284	0.244		
Methyl tert-butyl ether	ND	0.0723	0.0616	ND	0.261	0.222		
Acrylonitrile	ND	0.0716	0.0616	ND	0.155	0.134		
Hexane	0.181	0.0715	0.0616	0.639	0.252	0.217	7.5	pass
1,1-Dichloroethane	ND	0.0699	0.0616	ND	0.283	0.249		
Vinyl acetate	ND	0.0720	0.0616	ND	0.253	0.217		
cis-1,2-Dichloroethene	ND	0.0711	0.0616	ND	0.282	0.244		
Methyl ethyl ketone (2-Butanone)	0.183	0.0727	0.0616	0.538	0.214	0.181	1.2	pass, m
Ethyl acetate	ND	0.0702	0.0616	ND	0.253	0.222		
Chloroform	ND	0.0706	0.0616	ND	0.344	0.300		
Tetrahydrofuran	ND	0.0712	0.0616	ND	0.210	0.181		
1,1,1-Trichloroethane	ND	0.0711	0.0616	ND	0.387	0.336		
Cyclohexane	0.135	0.0721	0.0616	0.463	0.248	0.212	11.6	pass, m
Carbon tetrachloride	0.0683	0.0708	0.0616	0.429	0.445	0.387	6.6	pass, J, m
Benzene	2.06	0.0708	0.0616	6.58	0.226	0.197	3.3	pass
2,2,4-trimethylpentane	ND	0.0727	0.0616	ND	0.340	0.287		

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs
 All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 1022-153.VOC03_230103_S.LD
 Sample Info. 1022-153; 500mL Load; Can #1871
 Sampling Date 2023-01-03 10:51
 Received Date 2023-01-06 00:00
 Sample Type LabDup
 Batch Xavier_X010923B.v1
 Data File X2300107.D
 Dilution 1.000
 Pressurization Factor 1.759
 Acquisition Date 2023-01-09 15:22
 Instrument Method TO15_SCNV6.M
 Matrix Air
 Enthalpy ID 1022-153.VOC03_230103_S.LD

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Dup Diff (%)	Flags
1,2-Dichloroethane	ND	0.0724	0.0616	ND	0.293	0.249		
Heptane	0.0946	0.0713	0.0616	0.387	0.292	0.252	11.2	pass
Trichloroethene	ND	0.0711	0.0616	ND	0.382	0.331		
1,2-Dichloropropane	ND	0.0708	0.0616	ND	0.327	0.284		
Methyl methacrylate	ND	0.0737	0.0616	ND	0.301	0.252		
1,4-Dioxane	ND	0.0706	0.0616	ND	0.254	0.222		
Bromodichloromethane	ND	0.0711	0.0616	ND	0.476	0.412		
cis-1,3-Dichloropropene	ND	0.0699	0.0616	ND	0.317	0.279		
Methyl isobutyl ketone	ND	0.0731	0.0616	ND	0.299	0.252		
Toluene	1.15	0.0716	0.0616	4.31	0.270	0.232	2.3	pass
trans-1,3-Dichloropropene	ND	0.0726	0.0616	ND	0.329	0.279		
1,1,2-Trichloroethane	ND	0.0716	0.0616	ND	0.390	0.336		
Tetrachloroethene	0.113	0.0720	0.0616	0.763	0.488	0.417	10.2	pass, m
2-Hexanone (Methyl butyl ketone)	ND	0.0720	0.0616	ND	0.295	0.252		
Dibromochloromethane	ND	0.0709	0.0616	ND	0.604	0.524		
1,2-Dibromoethane	ND	0.0720	0.0616	ND	0.553	0.473		
Chlorobenzene	ND	0.0725	0.0616	ND	0.333	0.283		
Ethylbenzene	ND	0.0699	0.0616	ND	0.303	0.267		
1,1,1,2-Tetrachloroethane	ND	0.0709	0.0616	ND	0.487	0.422		
m-/p-Xylenes	0.172	0.0713	0.0616	0.748	0.310	0.267	0.4	pass
o-Xylene	0.0895	0.0705	0.0616	0.388	0.306	0.267	1.3	pass
Styrene	0.0912	0.0690	0.0616	0.388	0.294	0.262	2.7	pass
Bromoform	ND	0.0706	0.0616	ND	0.729	0.636		
1,1,2,2-Tetrachloroethane	ND	0.0711	0.0616	ND	0.488	0.422		
4-Ethyltoluene	0.218	0.0716	0.0616	1.07	0.352	0.302	4.9	pass, m
2-Chlorotoluene	ND	0.0710	0.0616	ND	0.367	0.319		
1,3,5-Trimethylbenzene	0.0987	0.0713	0.0616	0.485	0.350	0.302	3.3	pass
1,2,4-Trimethylbenzene	0.185	0.0704	0.0616	0.907	0.346	0.302	1.0	pass
1,3-Dichlorobenzene	ND	0.0715	0.0616	ND	0.430	0.370		
1,4-Dichlorobenzene	ND	0.0707	0.0616	ND	0.425	0.370		
Benzyl chloride	ND	0.0708	0.0616	ND	0.366	0.319		
1,2-Dichlorobenzene	ND	0.0713	0.0616	ND	0.428	0.370		
1,2,4-Trichlorobenzene	ND	0.0701	0.0616	ND	0.520	0.457		
Hexachlorobutadiene	ND	0.0695	0.0616	ND	0.741	0.656		
Naphthalene	1.85	0.0708	0.0616	9.70	0.371	0.323	0.2	pass
1-Bromopropane	ND	0.0698	0.0616	ND	0.351	0.309		

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs
All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name 1022-153.VOC03_230103_S.LD
Sample Info. 1022-153; 500mL Load; Can #1871
Sampling Date 2023-01-03 10:51
Received Date 2023-01-06 00:00
Sample Type LabDup
Batch Xavier_X010923B.v1
Data File X2300107.D
Dilution 1.000
Pressurization Factor 1.759
Acquisition Date 2023-01-09 15:22
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID 1022-153.VOC03_230103_S.LD

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Dup Diff (%)	Flags
1-Octene	ND	0.0694	0.0616	ND	0.318	0.282		
n-Octane	ND	0.0725	0.0616	ND	0.338	0.287		
Isopropylbenzene	ND	0.0715	0.0616	ND	0.351	0.302		
n-Propylbenzene	0.178	0.0722	0.0616	0.876	0.355	0.302	4.2	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	842,778	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,083,671	12.46	5.16	pass
Chlorobenzene-d5 (IS)	2,804,533	16.59	4.92	pass

(ND) = Not Detected
(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration
IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name X010923A_Humid Blank #0702
Sample Info. 500mL Load; Can #0702
Sample Type Blank
Batch Xavier_X010923A.v1
Data File X2300103.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2023-01-09 11:45
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID X010923A_Humid Blank #0702

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Propylene	ND	0.0386	0.0350	ND	0.0665	0.0602	pass
Freon 12 (CCl2F2)	ND	0.0392	0.0350	ND	0.194	0.173	pass
Freon 114 (C2Cl2F4)	ND	0.401	0.0350	ND	2.80	0.245	pass
Chloromethane	ND	0.0396	0.0350	ND	0.0816	0.0722	pass
Chloroethene (Vinyl chloride)	ND	0.0400	0.0350	ND	0.102	0.0894	pass
1,3-Butadiene	ND	0.0389	0.0350	ND	0.0860	0.0774	pass
Bromomethane	ND	0.0392	0.0350	ND	0.152	0.136	pass
Chloroethane	ND	0.0406	0.0350	ND	0.107	0.0923	pass
Bromoethene (Vinyl bromide)	ND	0.0391	0.0350	ND	0.171	0.153	pass
Freon 11 (CCl3F)	ND	0.0422	0.0350	ND	0.237	0.197	pass
Ethanol	0.109	0.0396	0.0400	0.205	0.0746	0.0753	pass
Acrolein	ND	0.0394	0.0350	ND	0.0903	0.0802	pass
Freon 113 (C2Cl3F3)	ND	0.0406	0.0350	ND	0.311	0.268	pass
1,1-Dichloroethene	ND	0.0402	0.0350	ND	0.159	0.139	pass
Acetone	0.110	0.0401	0.0350	0.262	0.0951	0.0831	fail
Carbon disulfide	ND	0.0399	0.0350	ND	0.124	0.109	pass
Isopropyl alcohol	ND	0.0399	0.0350	ND	0.0980	0.0860	pass
Allyl chloride (3-chloropropene)	ND	0.0432	0.0350	ND	0.135	0.109	pass
Acetonitrile	ND	0.0399	0.0350	ND	0.0669	0.0587	pass
Methylene chloride	ND	0.0410	0.0350	ND	0.142	0.122	pass
trans-1,2-Dichloroethene	ND	0.0408	0.0350	ND	0.162	0.139	pass
Methyl tert-butyl ether	ND	0.0411	0.0350	ND	0.148	0.126	pass
Acrylonitrile	ND	0.0407	0.0350	ND	0.0883	0.0759	pass
Hexane	ND	0.0406	0.0350	ND	0.143	0.123	pass
1,1-Dichloroethane	ND	0.0397	0.0350	ND	0.161	0.142	pass
Vinyl acetate	ND	0.0409	0.0350	ND	0.144	0.123	pass
cis-1,2-Dichloroethene	ND	0.0404	0.0350	ND	0.160	0.139	pass
Methyl ethyl ketone (2-Butanone)	ND	0.0414	0.0350	ND	0.122	0.103	pass
Ethyl acetate	ND	0.0399	0.0350	ND	0.144	0.126	pass
Chloroform	ND	0.0401	0.0350	ND	0.196	0.171	pass
Tetrahydrofuran	ND	0.0405	0.0350	ND	0.119	0.103	pass
1,1,1-Trichloroethane	ND	0.0404	0.0350	ND	0.220	0.191	pass
Cyclohexane	ND	0.0410	0.0350	ND	0.141	0.120	pass
Carbon tetrachloride	ND	0.0403	0.0350	ND	0.253	0.220	pass

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name X010923A_Humid Blank #0702
Sample Info. 500mL Load; Can #0702
Sample Type Blank
Batch Xavier_X010923A.v1
Data File X2300103.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2023-01-09 11:45
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID X010923A_Humid Blank #0702

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
Benzene	ND	0.0402	0.0350	ND	0.128	0.112	pass
2,2,4-trimethylpentane	ND	0.0414	0.0350	ND	0.193	0.163	pass
1,2-Dichloroethane	ND	0.0412	0.0350	ND	0.166	0.142	pass
Heptane	ND	0.0405	0.0350	ND	0.166	0.143	pass
Trichloroethene	ND	0.0404	0.0350	ND	0.217	0.188	pass
1,2-Dichloropropane	ND	0.0403	0.0350	ND	0.186	0.162	pass
Methyl methacrylate	ND	0.0419	0.0350	ND	0.171	0.143	pass
1,4-Dioxane	ND	0.0401	0.0350	ND	0.144	0.126	pass
Bromodichloromethane	ND	0.0404	0.0350	ND	0.271	0.234	pass
cis-1,3-Dichloropropene	ND	0.0397	0.0350	ND	0.180	0.159	pass
Methyl isobutyl ketone	ND	0.0416	0.0350	ND	0.170	0.143	pass
Toluene	ND	0.0407	0.0350	ND	0.153	0.132	pass
trans-1,3-Dichloropropene	ND	0.0413	0.0350	ND	0.187	0.159	pass
1,1,2-Trichloroethane	ND	0.0407	0.0350	ND	0.222	0.191	pass
Tetrachloroethene	ND	0.0409	0.0350	ND	0.277	0.237	pass
2-Hexanone (Methyl butyl ketone)	ND	0.0409	0.0350	ND	0.168	0.143	pass
Dibromochloromethane	ND	0.0403	0.0350	ND	0.343	0.298	pass
1,2-Dibromoethane	ND	0.0409	0.0350	ND	0.314	0.269	pass
Chlorobenzene	ND	0.0412	0.0350	ND	0.190	0.161	pass
Ethylbenzene	ND	0.0397	0.0350	ND	0.172	0.152	pass
1,1,1,2-Tetrachloroethane	ND	0.0403	0.0350	ND	0.277	0.240	pass
m-/p-Xylenes	ND	0.0406	0.0350	ND	0.176	0.152	pass
o-Xylene	ND	0.0401	0.0350	ND	0.174	0.152	pass
Styrene	ND	0.0392	0.0350	ND	0.167	0.149	pass
Bromoform	ND	0.0401	0.0350	ND	0.414	0.362	pass
1,1,2,2-Tetrachloroethane	ND	0.0404	0.0350	ND	0.277	0.240	pass
4-Ethyltoluene	ND	0.0407	0.0350	ND	0.200	0.172	pass
2-Chlorotoluene	ND	0.0404	0.0350	ND	0.209	0.181	pass
1,3,5-Trimethylbenzene	ND	0.0406	0.0350	ND	0.199	0.172	pass
1,2,4-Trimethylbenzene	ND	0.0400	0.0350	ND	0.197	0.172	pass
1,3-Dichlorobenzene	ND	0.0406	0.0350	ND	0.244	0.210	pass
1,4-Dichlorobenzene	ND	0.0402	0.0350	ND	0.242	0.210	pass
Benzyl chloride	ND	0.0402	0.0350	ND	0.208	0.181	pass
1,2-Dichlorobenzene	ND	0.0405	0.0350	ND	0.243	0.210	pass

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name X010923A_Humid Blank #0702
Sample Info. 500mL Load; Can #0702
Sample Type Blank
Batch Xavier_X010923A.v1
Data File X2300103.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2023-01-09 11:45
Instrument Method TO15_SCNV6.M
Matrix Air
Analyst TDD
Instrument Xavier
Enthalpy ID X010923A_Humid Blank #0702

Target Compound	Concentration (ppbv)	RL (ppbv)	MDL (ppbv)	Concentration (ug/m³)	RL (ug/m³)	MDL (ug/m³)	Flags
1,2,4-Trichlorobenzene	ND	0.0398	0.0350	ND	0.295	0.260	pass
Hexachlorobutadiene	ND	0.0395	0.0350	ND	0.421	0.373	pass
Naphthalene	ND	0.0403	0.0350	ND	0.211	0.183	pass
1-Bromopropane	ND	0.0397	0.0350	ND	0.199	0.176	pass
1-Octene	ND	0.0395	0.0350	ND	0.181	0.161	pass
n-Octane	ND	0.0412	0.0350	ND	0.192	0.163	pass
Isopropylbenzene	ND	0.0406	0.0350	ND	0.200	0.172	pass
n-Propylbenzene	ND	0.0410	0.0350	ND	0.202	0.172	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	875,855	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,239,477	12.46	5.16	pass
Chlorobenzene-d5 (IS)	2,925,121	16.59	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name X010923A_5ppbv TO15 LCS
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QC
Batch Xavier_X010923A.v1
Data File X2300100.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2023-01-09 09:08
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID X010923A_5ppbv TO15 LCS

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Recovery (%)	Flags
Propylene	749,727	5.60	4.83	115.9	pass
Freon 12 (CCl2F2)	1,891,801	4.89	4.90	99.9	pass
Freon 114 (C2Cl2F4)	2,142,190	5.35	5.01	106.8	pass
Chloromethane	800,390	5.74	4.95	116.2	pass
Chloroethene (Vinyl chloride)	455,041	5.53	5.00	110.8	pass, m
1,3-Butadiene	802,539	5.79	4.87	119.0	pass
Bromomethane	423,279	4.76	4.91	97.0	pass
Chloroethane	350,370	5.31	5.08	104.5	pass
Bromoethene (Vinyl bromide)	740,526	4.66	4.89	95.3	pass
Freon 11 (CCl3F)	2,103,282	5.46	5.28	103.4	pass
Ethanol	347,781	4.47	4.96	90.3	pass
Acrolein	272,473	4.98	4.93	101.1	pass
Freon 113 (C2Cl3F3)	1,331,608	4.78	5.08	94.2	pass
1,1-Dichloroethene	1,302,487	5.24	5.03	104.1	pass
Acetone	1,545,054	5.40	5.01	107.8	pass, m
Carbon disulfide	2,099,810	5.37	4.99	107.8	pass
Isopropyl alcohol	1,591,210	5.43	4.99	108.9	pass
Allyl chloride (3-chloropropene)	300,353	5.37	5.04	106.5	pass
Acetonitrile	808,309	6.14	4.99	123.2	pass
Methylene chloride	1,142,699	5.38	5.12	105.0	pass
trans-1,2-Dichloroethene	1,098,850	5.42	5.10	106.2	pass
Methyl tert-butyl ether	1,785,603	5.21	5.14	101.4	pass
Acrylonitrile	588,291	5.46	5.09	107.2	pass
Hexane	1,131,215	5.51	5.08	108.4	pass
1,1-Dichloroethane	1,329,550	5.39	4.97	108.6	pass
Vinyl acetate	2,092,649	5.22	5.12	102.0	pass, m
cis-1,2-Dichloroethene	1,293,344	5.78	5.05	114.5	pass
Methyl ethyl ketone (2-Butanone)	336,725	5.47	5.17	105.9	pass
Ethyl acetate	341,591	5.73	4.99	114.9	pass
Chloroform	1,543,025	5.29	5.02	105.4	pass
Tetrahydrofuran	304,590	5.32	5.06	105.2	pass, m
1,1,1-Trichloroethane	1,503,019	4.98	5.05	98.7	pass
Cyclohexane	1,189,607	5.70	5.13	111.2	pass
Carbon tetrachloride	1,693,011	5.00	5.04	99.4	pass
Benzene	2,058,403	5.20	5.03	103.3	pass
2,2,4-trimethylpentane	3,885,846	5.58	5.17	107.9	pass

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name X010923A_5ppbv TO15 LCS
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QC
Batch Xavier_X010923A.v1
Data File X2300100.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2023-01-09 09:08
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID X010923A_5ppbv TO15 LCS

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Recovery (%)	Flags
1,2-Dichloroethane	1,040,054	4.90	5.15	95.2	pass
Heptane	736,451	5.30	5.07	104.7	pass
Trichloroethene	1,070,770	4.58	5.06	90.5	pass
1,2-Dichloropropane	909,466	5.52	5.04	109.6	pass
Methyl methacrylate	762,148	5.50	5.24	105.1	pass
1,4-Dioxane	455,713	4.99	5.02	99.5	pass
Bromodichloromethane	1,645,779	5.14	5.05	101.8	pass
cis-1,3-Dichloropropene	1,158,793	4.83	4.97	97.4	pass
Methyl isobutyl ketone	2,456,957	5.58	5.20	107.4	pass
Toluene	2,833,038	4.89	5.09	96.1	pass
trans-1,3-Dichloropropene	1,236,668	4.70	5.16	91.1	pass
1,1,2-Trichloroethane	931,034	4.57	5.09	90.0	pass
Tetrachloroethene	1,517,487	4.52	5.12	88.3	pass
2-Hexanone (Methyl butyl ketone)	2,346,884	5.25	5.12	102.7	pass
Dibromochloromethane	2,028,159	4.75	5.04	94.2	pass
1,2-Dibromoethane	1,669,265	4.66	5.12	91.1	pass
Chlorobenzene	2,329,010	4.59	5.15	89.1	pass
Ethylbenzene	3,623,039	4.80	4.97	96.7	pass
1,1,1,2-Tetrachloroethane	1,295,152	4.33	5.04	85.8	pass
m-/p-Xylenes	2,725,450	4.78	5.07	94.2	pass
o-Xylene	2,812,539	4.73	5.01	94.4	pass
Styrene	2,219,154	4.75	4.90	96.9	pass
Bromoform	2,201,059	4.93	5.02	98.3	pass
1,1,2,2-Tetrachloroethane	2,295,611	5.06	5.06	100.1	pass
4-Ethyltoluene	4,299,147	5.03	5.09	98.9	pass, m
2-Chlorotoluene	3,527,058	4.99	5.05	99.0	pass
1,3,5-Trimethylbenzene	3,461,785	4.88	5.07	96.2	pass
1,2,4-Trimethylbenzene	3,508,691	4.85	5.01	96.8	pass
1,3-Dichlorobenzene	2,775,608	4.72	5.08	93.0	pass
1,4-Dichlorobenzene	2,812,378	4.70	5.03	93.5	pass
Benzyl chloride	3,240,560	5.15	5.03	102.3	pass
1,2-Dichlorobenzene	2,686,335	4.75	5.07	93.7	pass
1,2,4-Trichlorobenzene	2,557,891	5.23	4.98	105.0	pass
Hexachlorobutadiene	2,232,153	5.24	4.94	106.1	pass
Naphthalene	6,037,941	5.39	5.04	107.1	pass
1-Bromopropane	1,688,660	5.60	4.96	113.0	pass

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name X010923A_5ppbv TO15 LCS
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QC
Batch Xavier_X010923A.v1
Data File X2300100.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2023-01-09 09:08
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID X010923A_5ppbv TO15 LCS

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Recovery (%)	Flags
1-Octene	586,446	4.95	4.94	100.3	pass
n-Octane	699,313	4.45	5.02	88.7	pass
Isopropylbenzene	4,179,339	4.84	5.08	95.2	pass
n-Propylbenzene	5,081,439	5.24	5.13	102.1	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	840,674	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,164,048	12.47	5.16	pass
Chlorobenzene-d5 (IS)	2,900,863	16.60	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name X010923A_5ppbv TO15 LCS LD
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QcDup
Batch Xavier_X010923A.v1
Data File X2300101.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2023-01-09 09:56
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID X010923A_5ppbv TO15 LCS LD

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Parent Conc (ppbv)	Recovery (%)	Diff (%)	Flags
Propylene	761,148	5.56	4.83	5.60	115.1%	0.7	pass
Freon 12 (CCl2F2)	1,901,261	4.81	4.90	4.89	98.2%	1.7	pass
Freon 114 (C2Cl2F4)	2,176,801	5.32	5.01	5.35	106.2%	0.6	pass
Chloromethane	800,618	5.62	4.95	5.74	113.7%	2.2	pass
Chloroethene (Vinyl chloride)	458,205	5.45	5.00	5.53	109.1%	1.5	pass
1,3-Butadiene	807,131	5.70	4.87	5.79	117.1%	1.6	pass
Bromomethane	434,168	4.78	4.91	4.76	97.4%	0.4	pass, m
Chloroethane	366,436	5.43	5.08	5.31	106.9%	2.3	pass
Bromoethene (Vinyl bromide)	758,870	4.67	4.89	4.66	95.6%	0.3	pass
Freon 11 (CCl3F)	2,119,743	5.38	5.28	5.46	102.0%	1.4	pass
Ethanol	345,719	4.35	4.96	4.47	87.8%	2.8	pass
Acrolein	269,217	4.81	4.93	4.98	97.7%	3.4	pass
Freon 113 (C2Cl3F3)	1,343,245	4.72	5.08	4.78	93.0%	1.3	pass
1,1-Dichloroethene	1,321,003	5.20	5.03	5.24	103.3%	0.8	pass
Acetone	1,514,258	5.18	5.01	5.40	103.4%	4.2	pass
Carbon disulfide	2,084,864	5.22	4.99	5.37	104.7%	2.9	pass
Isopropyl alcohol	1,533,877	5.12	4.99	5.43	102.7%	5.9	pass
Allyl chloride (3-chloropropene)	301,806	5.28	5.04	5.37	104.7%	1.7	pass
Acetonitrile	795,012	5.91	4.99	6.14	118.5%	3.8	pass
Methylene chloride	1,156,805	5.33	5.12	5.38	104.0%	1.0	pass
trans-1,2-Dichloroethene	1,120,346	5.40	5.10	5.42	105.9%	0.3	pass
Methyl tert-butyl ether	1,846,407	5.28	5.14	5.21	102.6%	1.2	pass
Acrylonitrile	585,376	5.31	5.09	5.46	104.3%	2.7	pass, m
Hexane	1,152,061	5.49	5.08	5.51	108.0%	0.4	pass
1,1-Dichloroethane	1,338,642	5.31	4.97	5.39	107.0%	1.5	pass
Vinyl acetate	2,109,712	5.14	5.12	5.22	100.6%	1.4	pass, m
cis-1,2-Dichloroethene	1,308,018	5.72	5.05	5.78	113.2%	1.1	pass
Methyl ethyl ketone (2-Butanone)	336,143	5.35	5.17	5.47	103.4%	2.4	pass
Ethyl acetate	324,662	5.33	4.99	5.73	106.8%	7.3	pass
Chloroform	1,575,049	5.28	5.02	5.29	105.3%	0.1	pass
Tetrahydrofuran	313,294	5.36	5.06	5.32	105.8%	0.6	pass, m
1,1,1-Trichloroethane	1,525,487	4.95	5.05	4.98	98.0%	0.7	pass
Cyclohexane	1,217,479	5.71	5.13	5.70	111.3%	0.1	pass
Carbon tetrachloride	1,741,887	5.04	5.04	5.00	100.0%	0.7	pass
Benzene	2,066,938	5.19	5.03	5.20	103.2%	0.2	pass
2,2,4-trimethylpentane	3,922,796	5.60	5.17	5.58	108.3%	0.4	pass

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name X010923A_5ppbv TO15 LCS LD
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QcDup
Batch Xavier_X010923A.v1
Data File X2300101.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2023-01-09 09:56
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID X010923A_5ppbv TO15 LCS LD

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Parent Conc (ppbv)	Recovery (%)	Diff (%)	Flags
1,2-Dichloroethane	1,053,921	4.94	5.15	4.90	95.9%	0.7	pass
Heptane	741,904	5.31	5.07	5.30	104.8%	0.2	pass
Trichloroethene	1,094,085	4.65	5.06	4.58	92.0%	1.6	pass
1,2-Dichloropropane	909,582	5.49	5.04	5.52	108.9%	0.6	pass
Methyl methacrylate	759,774	5.45	5.24	5.50	104.2%	0.9	pass
1,4-Dioxane	460,157	5.01	5.02	4.99	99.9%	0.4	pass
Bromodichloromethane	1,659,673	5.15	5.05	5.14	102.0%	0.3	pass
cis-1,3-Dichloropropene	1,163,528	4.83	4.97	4.83	97.2%	0.2	pass
Methyl isobutyl ketone	2,542,564	5.74	5.20	5.58	110.5%	2.8	pass
Toluene	2,867,631	4.92	5.09	4.89	96.6%	0.5	pass
trans-1,3-Dichloropropene	1,237,136	4.67	5.16	4.70	90.5%	0.7	pass
1,1,2-Trichloroethane	967,287	4.72	5.09	4.57	92.8%	3.1	pass
Tetrachloroethene	1,538,106	4.55	5.12	4.52	88.9%	0.7	pass
2-Hexanone (Methyl butyl ketone)	2,380,662	5.29	5.12	5.25	103.5%	0.7	pass
Dibromochloromethane	2,054,323	4.78	5.04	4.75	94.8%	0.6	pass
1,2-Dibromoethane	1,694,963	4.70	5.12	4.66	91.8%	0.8	pass
Chlorobenzene	2,370,071	4.64	5.15	4.59	90.1%	1.0	pass
Ethylbenzene	3,709,011	4.88	4.97	4.80	98.3%	1.6	pass
1,1,1,2-Tetrachloroethane	1,336,911	4.44	5.04	4.33	88.0%	2.5	pass
m-/p-Xylenes	2,730,513	4.75	5.07	4.78	93.7%	0.5	pass
o-Xylene	2,862,190	4.78	5.01	4.73	95.4%	1.1	pass
Styrene	2,232,801	4.74	4.90	4.75	96.8%	0.1	pass
Bromoform	2,246,684	5.00	5.02	4.93	99.6%	1.4	pass
1,1,2,2-Tetrachloroethane	2,333,419	5.11	5.06	5.06	101.0%	0.9	pass
4-Ethyltoluene	4,428,631	5.15	5.09	5.03	101.2%	2.3	pass, m
2-Chlorotoluene	3,608,618	5.07	5.05	4.99	100.6%	1.6	pass
1,3,5-Trimethylbenzene	3,521,190	4.93	5.07	4.88	97.2%	1.0	pass
1,2,4-Trimethylbenzene	3,519,982	4.83	5.01	4.85	96.5%	0.4	pass
1,3-Dichlorobenzene	2,819,041	4.77	5.08	4.72	93.8%	0.9	pass
1,4-Dichlorobenzene	2,864,652	4.75	5.03	4.70	94.6%	1.1	pass
Benzyl chloride	3,313,418	5.23	5.03	5.15	103.9%	1.5	pass
1,2-Dichlorobenzene	2,791,480	4.90	5.07	4.75	96.7%	3.1	pass
1,2,4-Trichlorobenzene	2,680,478	5.44	4.98	5.23	109.3%	4.0	pass
Hexachlorobutadiene	2,290,897	5.34	4.94	5.24	108.2%	1.9	pass
Naphthalene	6,140,316	5.45	5.04	5.39	108.1%	1.0	pass
1-Bromopropane	1,695,352	5.50	4.96	5.60	111.0%	1.8	pass

Enthalpy Analytical

Job No.: 1022-153-1 EPA Method TO-15 Analysis -- Runs

All4, Inc. 00701-0002.00 U.S. Steel Corp-Clariton Works-Clariton, PA ICR

Sample Name X010923A_5ppbv TO15 LCS LD
Sample Info. 125mL load; Can #2052; GCMSPrepPg1199
Sample Type QcDup
Batch Xavier_X010923A.v1
Data File X2300101.D
Dilution 1.000
Pressurization Factor 1.000
Acquisition Date 2023-01-09 09:56
Instrument Method TO15_SCNV6.M
Matrix Air
Enthalpy ID X010923A_5ppbv TO15 LCS LD

Target Compound	Response	Concentration (ppbv)	Expected Conc (ppbv)	Parent Conc (ppbv)	Recovery (%)	Diff (%)	Flags
1-Octene	589,538	4.94	4.94	4.95	100.1%	0.2	pass
n-Octane	728,936	4.60	5.02	4.45	91.8%	3.5	pass
Isopropylbenzene	4,245,658	4.88	5.08	4.84	96.1%	0.9	pass
n-Propylbenzene	5,149,950	5.27	5.13	5.24	102.7%	0.6	pass

Compound	Response	Retention Time (min)	Concentration (ppbv)	Flag
Bromochloromethane (IS)	859,286	11.04	5.21	pass
1,4-Difluorobenzene (IS)	3,182,649	12.46	5.16	pass
Chlorobenzene-d5 (IS)	2,921,174	16.59	4.92	pass

(ND) = Not Detected

(J) = Below Calibration Range, (E) = Above Calibration Range, (m) = Manual Integration

IS Acceptance Criteria: RT +/- 20 sec, Response +/- 40%

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	All4, Inc.
Analyst	TDD
Parameters	EPA Method TO-15

Client #	00701-0002.00; U.S. Steel Corp – Clairton Works
Job #	1022-153
# Samples	6 Canisters

Custody

Alyssa Miller received the samples on 1/6/23 after being relinquished by All4, Inc. The samples were received at ambient temperature and in good condition.

Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, LLC.

Analysis

The samples were analyzed for the TO-15 target compound list using the analytical procedures in EPA Method TO-15, *Determination of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*.

Upon receipt, the canister pressures were measured and recorded. The canisters were then pressurized with UHP nitrogen and a dilution ratio was calculated for each canister. See the Canister Pressurization Datasheet located in the Results section of this report.

All samples were analyzed undiluted. Sample **VOC05_230103_S** was analyzed at a subsequent 10-fold analytical dilution to bring benzene within the instrument's calibrated range. Dilution factors are located in the sample header information.

The Agilent Technologies Model 6890N, Gas Chromatograph "Xavier" (S/N US10721018) equipped with a 5975C VL Mass Selective Detector (S/N US71215962) was used for this analysis. All samples and standards were introduced directly to the analyzer using an Entech 7200 Preconcentrator.

Calibration

The associated BFB tune analyses associated with the initial and continuing calibrations met all method acceptance criteria.

The initial calibration (**X100722A-TO15**) met the 30% RSD criteria. The initial calibration verification (ICV) met the 70-130% recovery criteria. The continuing calibration (CCV) met the 30% difference criteria. Full calibration data is available upon request.



Enthalpy Analytical Narrative Summary (continued)

Chromatographic Conditions

The acquisition method (*TO15-SCNv6.M*) may be made available upon request.

QC Notes

All internal standard area responses and retention time criteria were met for these analyses.

The Laboratory Control Samples (LCS) associated with this sample data met the 70-130% recovery criteria.

The Laboratory Duplicates (LD) associated with this sample data met the 25% difference acceptance criteria. The LCS was also analyzed in duplicate and met the 25% difference criteria for all compounds.

The laboratory humid blank associated with this analysis did not contain any of the target analytes at a concentration greater than 3x their MDL, with the exception of acetone at 0.110ppbv.

The samples were analyzed within the 7-day holding time from the retrieval date requested in the ICR protocol.

Reporting Notes

These analyses met the requirements of the TNI Standard. Any deviations from the requirements of the reference method or TNI Standard have been stated above.

The results presented in this report are representative of the samples as provided to the laboratory.

General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, LLC data reports, unless specifically noted otherwise.

- Any analysis which refers to the method as “**Type**” represents a planned deviation from the reference method. For instance a Hydrogen Sulfide assay from a Tedlar bag would be labeled as “EPA Method 16-Type” because Tedlar bags are not mentioned as one of the collection options in EPA Method 16.
- The acronym **MDL** represents the Minimum Detection Limit. Below this value the laboratory cannot determine the presence of the analyte of interest reliably.
- The acronym **LOQ** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The acronym **ND** following a value indicates a non-detect or analytical result below the MDL.
- The letter **J** in the Qualifier or Flag column in the results indicates that the value is between the MDL and the LOQ. The laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter **E** in the Qualifier or Flag column indicates an analytical result exceeding 100% of the highest calibration point. The associated value should be considered as an estimate.
- Sample results are presented ‘as measured’ for single injection methodologies, or an average value if multiple injections are made. If all injections are below the MDL, the sample is considered non-detect and the ND value is presented. If one, but not all, are below the MDL, the MDL value is used for any injections that are below the MDL. For example, if the MDL is 0.500 and LOQ is 1.00, and the instrument measures 0.355, 0.620, and 0.442 - the result reported is the average of 0.500, 0.620, and 0.500 - - - i.e. 0.540 with a J flag.
- When a spike recovery (Bag Spike, Collocated Spike Train, or liquid matrix spike) is being calculated, the native (unspiked) sample result is used in the calculations, as long as the value is above the MDL. If a sample is ND, then 0 is used as the native amount (not the MDL value).
- The acronym **DF** represents Dilution Factor. This number represents dilution of the sample during the preparation and/or analysis process. The analytical result taken from a laboratory instrument is multiplied by the DF to determine the final undiluted sample results.
- The addition of **MS** to the Sample ID represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. The MS analysis indicates what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix interferes with the analysis of the analyte(s).



General Reporting Notes

(continued)

- The addition of **MSD** to the Sample ID represents a Matrix Spike Duplicate. Prepared in the same manner as a MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times.
- The addition of **LD** to the Sample ID represents a Laboratory Duplicate. The analyst prepares an additional aliquot of sample for testing and the results of the duplicate analysis are compared to the initial result. The result should have a difference value of within 10% of the initial result (if the results of the original analysis are greater than the LOQ).
- The addition of **AD** to the Sample ID represents an Alternate Dilution. The analyst prepares an additional aliquot at a different dilution factor (usually double the initial factor). This analysis helps confirm that no additional compound is present and coeluting or sharing absorbance with the analyte of interest, as they would have a different response/absorbance than the analyte of interest.
- The Sample ID **LCS** represents a Laboratory Control Sample. Clean matrix, similar to the client sample matrix, prepared and analyzed by the laboratory using the same reagents, spiking standards and procedures used for the client samples. The LCS is used to assess the control of the laboratory's analytical system. Whenever spikes are prepared for our client projects, two spikes are retained as LCSs. The LCSs are labeled with the associated project number and kept in-house at the appropriate temperature conditions. When the project samples are received for analysis, the LCSs are analyzed to confirm that the analyte could be recovered from the media, separate from the samples which were used on the project and which may have been affected by source matrix, sample collection, and/or sample transport.
- **Significant Figures:** Where the reported value is much greater than unity (1.00) in the units expressed, the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits displayed, but no confidence should be placed on more than two significant digits. In the case of small numbers, generally 3 significant figures are presented, but still only 2 should be used with confidence. Many neat materials are only certified to 3 digits, and as the mathematically correct final result is always 1 digit less than all its pre-cursors - 2 significant figures are what are most defensible.
- **Manual Integration:** The data systems used for processing will flag manually integrated peaks with an "M". There are several reasons a peak may be manually integrated. These reasons will be identified by the following two letter designations on sample chromatograms, if provided in the report. The peak was *not integrated* by the software "**NI**", the peak was *integrated incorrectly* by the software "**II**" or the *wrong peak* was integrated by the software "**WP**". These codes will accompany the analyst's manual integration stamp placed next to the compound name on the chromatogram.



Sample Custody



Enthalpy Analytical - Durham

800 Capitola Drive, Suite 1, Durham, NC 27713

Phone 919-850-4392

Special Instructions:

Ambient temp
good condition
AMM3 01.06.23

Air Chain of Custody Record

Lab No:

Page:

1 of 1

Turn Around Time (rush by advanced notice only)

Standard:

5 Day:

3 Day:

2 Day:

1 Day:

Custom TAT:

CUSTOMER INFORMATION

Company:

ALL4 LLC

Report To:

Dustin Snare

Email:

dsnare@all4inc.com

Address:

2393 Kimberton Rd, Kimberton, PA

Phone:

610-422-1126

Fax:

N/A

PROJECT INFORMATION

Name:

U. S. Steel Corp - Clairton Works

Number:

00701-0002.00

P.O. #:

Address:

Clairton, PA

Global ID:

N/A

Sampled By:

Dustin Snare

Analysis Requested

TO-15 VOC

Sample ID

Type

(I) Indoor
(A) Ambient
(SV) Soil Vapor
(S) Source

Equipment Information

Canister ID

Size
(1L, 3L,
6L, 15L)

Flow
Controller
ID

Sampling Information

Sample
Start
Date

Sample
Start
Time

Vacuum
Start
("Hg)

Sample
End
Date

Sample
End
Time

Vacuum
End
("Hg)

1	VOC01-230103-S	A	00069	6L	SB-01803	01/03/23	11:01	30	01/04/23	10:56	1.5	X
2	VOC02-230103-S	A	1780	6L	SB-01538	01/03/23	10:55	29	01/04/23	10:50	3	X
3	VOC03-230103-S	A	1871	6L	SB-01977	01/03/23	10:51	29	01/04/23	10:43	3	X
4	VOC03-230103-D	A	1701	6L	SB-15047	01/03/23	10:51	29.5	01/04/23	10:43	8.5	X
5	VOC04-230103-S	A	R5073	6L	SB-11938	01/03/23	10:44	29	01/04/23	10:40	7.5	X
6	VOC05-230103-S	A	1774	6L	SD-01722	01/03/23	12:10	30	01/04/23	12:06	5.5	X
7												
8												
9												
10												

Signature

Print Name

Company / Title

Date / Time

1 Relinquished By:

1 Received By:

2 Relinquished By:

2 Received By:

3 Relinquished By:

3 Received By:

**This Is The Last Page
Of This Report.**